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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/561,622	06/01/2006	Masaki Hashimoto	KIT-404	9658
24972 7590 12/02/2008 FULBRIGHT & JAWORSKI, LLP			EXAMINER	
666 FIFTH AVE			NGUYEN, SON T	
NEW YORK,	NY 10103-3198		ART UNIT	PAPER NUMBER
			3643	
			MAIL DATE	DELIVERY MODE
			12/02/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/561,622	HASHIMOTO ET AL.	
Examiner	Art Unit	
Son T. Nguyen	3643	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Statue		

Period ic	ог керіу
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, CHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Insiders of time may be available under the provisions of 37 CFF 1.138(a). In no event, however, may a reply be timely filled some communication. ONLY IF from the mailing date of this communication. ONLY IF from the mailing date of this communication will apply and will expire SIX (6) MONTHS from the mailing date of this communication. The to reply within the soll or extended period for reply will be platable, cause the application to become ABANDONED (SU S.C. § 133). The properties of t
Status	
2a)□	Responsive to communication(s) filed on <u>08 October 2008</u> . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.
Dispositi	ion of Claims
5)□ 6)⊠ 7)□	Claim(s) 11-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 11-27 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.
Applicati	ion Papers
10)□	The specification is objected to by the Examiner. The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing shet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority (ınder 35 U.S.C. § 119
12)⊠ a)i	Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). All b Some * c None of: 1. Certified copies of the priority documents have been received. 3. Copies of the certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
	440
Attachmen 1) Notice	et of References Cited (PTO-892) 4) Interview Summary (PTO-413)

- Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/SE/08)
 - Paper No(s)/Mail Date 12/20/05.

- Paper No(s)/Mail Date. _____ 5) Notice of Informal Patent Application 6) Other: ___

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DETAILED ACTION

 Upon further consideration based on the argument provided in the response filed 10/8/08, the restriction requirement mailed on 9/9/08 has been withdrawn. All pending claims 11-27 will be examined

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 11,15,16,19 are rejected under 35 U.S.C. 102(b) as being anticipated by Kistner (Re.32476).

For claim 11, Kistner teaches a plant cultivating substrate produced by reacting: a water-retentive filling material (col. 5,lines 20-27), water (col. 2,line 30), urethane prepolymer (col. 2,lines 37-50) and a polyol (col. 2,line 40,col. 3,lines 51-65) under conditions which form a plant cultivating substrate (col.5,lines 42-58).

For claim 15, Kistner teaches wherein said urethane prepolymer contains an isocyanate group (col. 2,lines 40-45,65-69).

For claim 16, Kistner teaches wherein said urethane prepolymer is formed by reacting toluene diisocyanate with a polyol (col. 4,lines 10-55).

For claim 19, Kistner teaches wherein said water- retentive filling material comprises: peat moss, coco peat, sawdust, coconut husk, chaff, chaff compost, dark compost,

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pearlite, vermiculite, or hydrophilic foam resin pulverized powder (col. 5,lines 20-

26). Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 12-14,17,18,20-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kistner (as above).

For claim 12, Kistner teaches wt. % in col. 6,lines 25-3 and in his examples but is silent about an example being wherein said water retentive filling material under dry conditions is from 15 to 60 wt. % of said plant cultivating substrate. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the water retentive filling material under dry conditions in the substrate of Kistner be from 15 to 60 wt. % of said plant cultivating substrate, depending on the type of plant grown in the substrate because each plant type required different ingredients in the substrate and depending on the potency of the substrate for the plant to grown therein.

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For claim 13, Kistner teaches polyol but is silent about the polyol contains an ester group. It would have been obvious to one having ordinary skill in the art at the time the invention was made to employ an ester group in the polyol of Kistner, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use (more potent or not) as a matter of obvious choice.

For claim 14, Kistner teaches wt. parts for the polyol in col. 6,lines 27-30 and in his examples but is silent about wherein the polyol is present in an amount of from 0.1 to 300 weight parts relative to 100 weight parts of the water-retentive filling material under dry conditions. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the polyol of Kistner be present in an amount of from 0.1 to 300 weight parts relative to 100 weight parts of the water-retentive filling material under dry conditions, depending on the type of plant grown in the substrate because each plant type required different ingredients in the substrate and depending on the potency of the substrate for the plant to grown therein.

For claim 17, Kistner teaches wt. parts for the urethane prepolymer in col. 6,lines 23-35 and in his examples but is silent about wherein said urethane prepolymer is present in an amount of from 50 to 300 weight parts relative to 100 weight parts of the water-retentive filling material under dry conditions. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the urethane prepolymer of Kistner be present in an amount of from 50 to 300 weight parts, depending on the type of plant grown in the substrate because each plant type required

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different ingredients in the substrate and depending on the potency of the substrate for the plant to grown therein.

For claim 18, Kistner teaches wt. parts for the urethane prepolymer in col. 6,lines 23-35 and in his examples but is silent wherein said urethane prepolymer is present in an amount of from 120 to 200 weight parts relative to 100 weight parts of the water-retentive filling material under dry conditions. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the urethane prepolymer of Kistner be present in an amount of from 120 to 200 weight parts relative to 100 weight parts of the water-retentive filling material under dry conditions, depending on the type of plant grown in the substrate because each plant type required different ingredients in the substrate and depending on the potency of the substrate for the plant to grown therein.

For claim 20, Kistner is silent about wherein the substrate has water absorptivity of from 25% to 75% by weight relative to the weight of said plant cultivating substrate, hardness of from 20N to 40N, and restoring force of from 4N to 10N. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the substrate of Kistner with a water absorptivity of from 25% to 75% by weight relative to the weight of said plant cultivating substrate, hardness of from 20N to 40N, and restoring force of from 4N to 10N, depending on the type of plant grown in the substrate because each plant type required different ingredients in the substrate and depending on the potency of the substrate for the plant to grown therein.

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For claim 21, Kistner teaches a method of manufacturing a plant cultivating substrate (col. 1,lines 38-47,col. 5,lines 42-58) comprising reacting and curing (col. 2, lines 28-36,col.3,lines 6-15,col.4,line 55,col. 5,lines 55-58) (i) a water-retentive filling material (col. 5,lines 20-26), (ii) water (col. 2,line 30), (iii) a urethane prepolymer (col. 2,lines 37-50) and (iv) a polyol (col. 2,line 40,col. 3,lines 51-65). Kistner teaches wt. % in his examples but is silent wherein said water-retentive filling material under dry conditions is from 15 to 60 wt.. % of said plant cultivating substrate. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the water-retentive filling material of Kistner under dry conditions be from 15 to 60 wt. % of said plant cultivating substrate, depending on the type of plant grown in the substrate because each plant type required different ingredients in the substrate and depending on the potency of the substrate for the plant to grown therein.

For claim 22, Kistner teaches mixing the ingredients depends on the intended use of the substrate (col. 5,lines 28-40,52-68,col. 6,lines 1-13), thus, Kistner does not specifically states (i) mixing the water-retentive filling material with said water to form a first suspension, (ii) adding said urethane prepolymer and said polyol to said first suspension and mixing to form a second suspension, (iii) reacting and curing said second suspension to obtain the plant cultivating substrate. It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the steps of (i) mixing the water-retentive filling material with said water to form a first suspension, (ii) adding said urethane prepolymer and said polyol to said first suspension and mixing to form a second suspension, (iii) reacting and curing said

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second suspension to obtain the plant cultivating substrate in the method of Kistner, depending on the user's intended use of the substrate as stated by Kistner.

For claim 23, Kistner teaches wt. parts for the polyol in col. 6,lines 27-30 and in his examples but is silent about wherein the polyol is present in an amount of from 0.1 to 300 weight parts relative to 100 weight parts of the water-retentive filling material under dry conditions. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the polyol in the method of Kistner be present in an amount of from 0.1 to 300 weight parts relative to 100 weight parts of the water-retentive filling material under dry conditions, depending on the type of plant grown in the substrate because each plant type required different ingredients in the substrate and depending on the potency of the substrate for the plant to grown therein.

For claim 24. Kistner teaches polyol but is silent about the polyol contains an ester group. It would have been obvious to one having ordinary skill in the art at the time the invention was made to employ an ester group in the polyol of the method of Kistner, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use (more potent or not) as a matter of obvious choice.

For claim 25, Kistner teaches wherein said reacting and curing takes place in a substrate forming mold having a top and a bottom (col. 5.lines 42-58).

For claim 26, Kistner is silent about wherein said manufacturing is effected such that an upper face of the plant cultivating substrate is located on the bottom of said substrate forming mold. It would have been obvious to one having ordinary skill in the

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art at the time the invention was made to manufacture the substrate of Kistner such that an upper face of the plant cultivating substrate is located on the bottom of said substrate forming mold, depending on the user's preference to employ such known molding process or another known molding process.

For claim 27, Kistner teaches wherein said water-retentive filling material comprises: peat moss, coco peat, sawdust, coconut husk, chaff, chaff compost, dark compost, pearlite, vermiculite, or hydrophilic foam resin pulverized powder (col. 5,lines 20-26).

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Son T. Nguyen whose telephone number is 571-272-6889. The examiner can normally be reached on Mon-Thu from 10:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter M. Poon can be reached on 571-272-6891. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Son T. Nguyen/ Primary Examiner, Art Unit 3643